Performance Data Sheet

AVD5540EXN

General Information

Model	AVD5540EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PTCS_CR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	10800	9460					
	Watts	1500	1540					
	Amps	6.83	6.97					
	Lb/h	140	127					
-10	Btu/h	13100	11600	10100				
	Watts	1630	1680	1700				
	Amps	7.33	7.55	7.67				
	Lb/h	169	155	141				
-5	Btu/h	15800	14100	12400	10800			
	Watts	1740	1810	1860	1870			
	Amps	7.81	8.11	8.31	8.39			
	Lb/h	201	186	171	156			
0	Btu/h	18700	16900	15000	13100	11500		
	Watts	1850	1930	2000	2040	2050		
	Amps	8.25	8.64	8.94	9.12	9.15		
	Lb/h	237	222	205	188	172		
5	Btu/h	21900	19900	17900	15800	13900		
	Watts	1940	2050	2140	2210	2240		
	Amps	8.66	9.13	9.53	9.82	9.96		
	Lb/h	277	261	243	225	206		
10	Btu/h	25500	23300	21100	18800	16600	14500	12700
	Watts	2030	2160	2270	2360	2420	2440	2420
	Amps	9.03	9.59	10.1	10.5	10.7	10.8	10.7
	Lb/h	319	303	284	265	245	225	206
15	Btu/h	29300	27000	24600	22100	19600	17300	15100
	Watts	2100	2250	2390	2500	2590	2640	2650
	Amps	9.34	10.0	10.6	11.1	11.5	11.7	11.8
	Lb/h	365	348	329	309	287	265	244
20	Btu/h	33500	31000	28400	25700	22900	20300	17800
	Watts	2160	2330	2490	2640	2750	2840	2880
	Amps	9.60	10.4	11.1	11.7	12.2	12.6	12.7
	Lb/h	413	397	378	356	333	310	286

25	Btu/h	37900	35300	32500	29500	26600	23700	20900
	Watts	2210	2400	2590	2760	2910	3020	3090
	Amps	9.80	10.7	11.5	12.2	12.9	13.4	13.7
	Lb/h	465	449	429	407	383	358	332
30	Btu/h	42600	39800	36800	33700	30500	27300	24200
	Watts	2240	2460	2670	2870	3050	3190	3300
	Amps	9.93	10.9	11.8	12.7	13.5	14.1	14.6
	Lb/h	519	504	484	462	436	410	383
35	Btu/h	47600	44700	41500	38200	34700	31200	27800
	Watts	2250	2490	2730	2960	3170	3350	3500
	Amps	9.99	11.1	12.1	13.1	14.0	14.8	15.5
	Lb/h	576	561	542	519	493	466	437
40	Btu/h	52900	49800	46500	42900	39200	35500	31800
	Watts	2250	2520	2790	3040	3280	3500	3680
	Amps	9.98	11.2	12.4	13.5	14.5	15.5	16.3
	Lb/h	636	622	603	580	554	525	494
45	Btu/h	58400	55200	51700	47900	44000	40000	36000
	Watts	2220	2520	2820	3110	3380	3630	3850
	Amps	9.87	11.2	12.5	13.8	15.0	16.1	17.0
	Lb/h	698	685	667	644	617	588	556
50	Btu/h	64200	60900	57200	53200	49100	44800	40500
	Watts	2180	2510	2830	3150	3460	3750	4000
	Amps	9.68	11.1	12.6	14.0	15.3	16.6	17.7
	Lb/h	763	751	734	711	684	654	621
55	Btu/h	70300	66800	63000	58800	54400	49900	45300
	Watts	2120	2470	2830	3180	3530	3850	4140
	Amps	9.39	11.0	12.5	14.1	15.6	17.0	18.3
	Lb/h	829	819	803	781	754	723	689

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.262173E+04	1.426520E+03	6.204025E+00	2.205746E+02
C2	6.392170E+02	3.858902E+00	8.905784E-03	4.992340E+00
C3	1.701845E+02	-7.467437E+00	-2.592945E-02	2.766314E+00
C4	5.605804E+00	-3.304016E-01	-1.376799E-03	3.532250E-02
C5	2.418475E+00	3.758048E-02	2.755860E-04	7.006015E-02
C6	-3.833091E+00	2.654938E-01	1.091912E-03	-4.301852E-02
C7	-5.825352E-03	-1.459276E-03	-7.772972E-06	-1.379130E-04
C8	6.237675E-03	1.675502E-03	7.807981E-06	3.903047E-04
C9	-3.334972E-02	2.080469E-03	8.534627E-06	-4.800777E-04
C10	1.366416E-02	-1.332420E-03	-5.593603E-06	1.380888E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature